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FILE 'HOME' ENTERED AT 16:58:28 ON 22 FEB 2007

=> file medline, uspatful, dgene, embase, wpids, biosis  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.42 0.42

FILE 'MEDLINE' ENTERED AT 16:59:41 ON 22 FEB 2007

FILE 'USPATFULL' ENTERED AT 16:59:41 ON 22 FEB 2007  
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=> s (methanol-utilizing bacterium)  
L1 79 (METHANOL-UTILIZING BACTERIUM)

=> s 11 and (entner-doudoroff pathway)

=> d 12 ti abs ibib tot

L3 ANSWER 1 OF 1 USPATEULL on STN

Method for producing L-amino acid using methylotroph

AB The present invention describes a method for producing an L-amino acid comprising culturing a microorganism having an ability to produce an L-amino acid in a medium, whereby the L-amino acid accumulates in the medium, and collecting the L-amino acid from the medium, whereby said microorganism comprises a methanol-utilizing bacterium having the Entner-Doudoroff pathway in which 6-phosphogluconate dehydratase activity and/or 2-keto-3-deoxy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER : 2004 : 184552 USPATELL

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004142435	A1	20040722
APPLICATION INFO:	US 2003-716473	A1	20031120 (10)

NUMBER DATE

## Connecting via Winsock to STN

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PRIORITY INFORMATION: JP 2002-336346 20021120  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036  
NUMBER OF CLAIMS: 6  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 1528  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 16:58:28 ON 22 FEB 2007)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT 16:59:41 ON 22 FEB 2007

L1 79 S (METHANOL-UTILIZING BACTERIUM)  
L2 1 S L1 AND (ENTNER-DOUDOROFF PATHWAY)

=> s 11 and method  
L3 16 L1 AND METHOD

=> s 11 and production  
L4 30 L1 AND PRODUCTION

=> s 13 and 14  
L5 11 L3 AND L4

=> s 15 and (modified)  
L6 4 L5 AND (MODIFIED)

=> d 16 ti abs ibib tot

L6 ANSWER 1 OF 4 USPATFULL on STN

TI Novel lysine decarboxylase gene and method for producing L-lysine

AB A Methylophilus bacterium in which a gene having a nucleotide sequence identical to a DNA coding for a protein defined in the following (A) or (B) or a gene having homology to the DNA in such a degree that homologous recombination with the DNA occurs is disrupted, thereby expression of the gene is suppressed and the intracellular lysine decarboxylase activity is reduced or eliminated is cultured in a medium containing methanol as a major carbon source to produce and accumulate L-lysine in culture and the L-lysine is collected from the culture: (A) a protein which has the amino acid sequence of SEQ ID NO: 4; (B) a protein which has the amino acid sequence of SEQ ID NO: 4 including substitution, deletion, insertion or addition of one or several amino acid residues and has a lysine decarboxylase activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:292227 USPATFULL  
TITLE: Novel lysine decarboxylase gene and method for producing L-lysine  
INVENTOR(S): Hirano, Seiko, Kawasaki-shi, JAPAN  
Yasueda, Hisashi, Kawasaki-shi, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004229311	A1	20041118
APPLICATION INFO.:	US 2004-784986	A1	20040225 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-47185	20030225
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	

NUMBER OF CLAIMS:	9
EXEMPLARY CLAIM:	1
LINE COUNT:	1576

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 4 USPATFULL on STN  
 TI Method for producing L-lysine using methanol-utilizing bacterium  
 AB L-Lysine is produced by culturing a methanol-utilizing bacterium which requires L-methionine for its growth and has an ability to produce L-lysine in a medium containing methanol as a main carbon source to produce and accumulate L-lysine in culture and collecting the L-lysine from the culture.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:	2004:273798 USPATFULL
TITLE:	Method for producing L-lysine using methanol-utilizing bacterium
INVENTOR(S):	Asahara, Takayuki, Kawasaki, JAPAN Hirano, Seiko, Kawasaki, JAPAN Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004214296	A1	20041028
APPLICATION INFO.:	US 2004-760283	A1	20040121 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-20513	20030129
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1429	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 4 USPATFULL on STN  
 TI Genes involved in polysaccharide production and utilization thereof  
 AB An ability of a methanol-utilizing bacterium to produce a polysaccharide is improved or suppressed using a DNA encoding a protein selected from the group consisting of:  
 (A) a protein which has the amino acid sequence of SEQ ID NO: 2;  
 (B) a variant of a protein which has the amino acid sequence of SEQ ID NO: 2 comprising substitution, deletion, insertion or addition of one or several amino acid residues and has an activity for producing a polysaccharide;  
 (C) a protein which has the amino acid sequence of SEQ ID NO: 4; and

(D) a variant of a protein which has the amino acid sequence of SEQ ID NO: 4 comprising substitution, deletion, insertion or addition of one or several amino acid residues and has an activity for producing a polysaccharide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:215462 USPATFULL

TITLE: Genes involved in polysaccharide production and utilization thereof

INVENTOR(S): Asahara, Takayuki, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004166570	A1	20040826
APPLICATION INFO.:	US 2004-772271	A1	20040206 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-32075	20030210

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036

NUMBER OF CLAIMS: 9

EXEMPLARY CLAIM: 1

LINE COUNT: 1180

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 4 USPATFULL on STN

TI Method for producing L-amino acid using methylotroph

AB The present invention describes a method for producing an L-amino acid comprising culturing a microorganism having an ability to produce an L-amino acid in a medium, whereby the L-amino acid accumulates in the medium, and collecting the L-amino acid from the medium, whereby said microorganism comprises a methanol-utilizing bacterium having the Entner-Doudoroff pathway in which 6-phosphogluconate dehydratase activity and/or 2-keto-3-dexoy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:184552 USPATFULL

TITLE: Method for producing L-amino acid using methylotroph

INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004142435	A1	20040722
APPLICATION INFO.:	US 2003-716473	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336346	20021120

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036

NUMBER OF CLAIMS: 6

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1528  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 16:58:28 ON 22 FEB 2007)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT  
16:59:41 ON 22 FEB 2007

L1 79 S (METHANOL-UTILIZING BACTERIUM)  
L2 1 S L1 AND (ENTNER-DOUDOROFF PATHWAY)  
L3 16 S L1 AND METHOD  
L4 30 S L1 AND PRODUCTION  
L5 11 S L3 AND L4  
L6 4 S L5 AND (MODIFIED)

=> s 14 and(increase the copy number)

5 FILES SEARCHED...

L7 1 L4 AND (INCREASE THE COPY NUMBER)

=> d 17 ti abs ibib tot

L7 ANSWER 1 OF 1 USPATFULL on STN

TI Method for producing L-amino acid using methylotroph  
AB The present invention describes a method for producing an L-amino acid comprising culturing a microorganism having an ability to produce an L-amino acid in a medium, whereby the L-amino acid accumulates in the medium, and collecting the L-amino acid from the medium, whereby said microorganism comprises a methanol-utilizing bacterium having the Entner-Doudoroff pathway in which 6-phosphogluconate dehydratase activity and/or 2-keto-3-dexoy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:184552 USPATFULL

TITLE: Method for producing L-amino acid using methylotroph  
INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004142435	A1	20040722
APPLICATION INFO.:	US 2003-716473	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336346	20021120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	

NUMBER OF CLAIMS: 6

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1528

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 13 and (increase copy number)

L8 0 L3 AND (INCREASE COPY NUMBER)

## Refine Search

### Search Results -

Terms	Documents
L6 and L1	0

**Database:**

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:**

L7	<input type="button" value="Refine Search"/>	
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### Search History

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**Set Name** **Query**

side by side

*DB=USPT; PLUR=YES; OP=OR*

<u>L7</u>	<u>L6</u> and <u>l1</u>	0	<u>L7</u>
<u>L6</u>	<u>L5</u> and (increase copy number)	2177	<u>L6</u>
<u>L5</u>	<u>L4</u> and (L-valine or l-isoleucine, or l-lysine)	2310	<u>L5</u>
<u>L4</u>	<u>L3</u> and (L-amino acid production)	90342	<u>L4</u>
<u>L3</u>	(methanol-utilizing bacterium)	107040	<u>L3</u>

*DB=PGPB; PLUR=YES; OP=OR*

<u>L2</u>	<u>L1</u> and (methanol-utilizing bacterium)	7	<u>L2</u>
<u>L1</u>	gunji.in.	110	<u>L1</u>

**Hit Count** **Set Name**

result set

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## Refine Search

### Search Results -

Terms	Documents
L1 and (methanol-utilizing bacterium)	7

**Database:** US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:** L2

### Search History

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**Set Name** **Query**  
side by side

**Hit Count** **Set Name**  
result set

*DB=PGPB; PLUR=YES; OP=OR*

<u>L2</u>	L1 and (methanol-utilizing bacterium)	7	<u>L2</u>
<u>L1</u>	gunji.in.	110	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

First Hit	Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS					

Search Results - Record(s) 1 through 7 of 7 returned.

1. Document ID: US 20060019355 A1

L2: Entry 1 of 7

File: PGPB

Jan 26, 2006

PGPUB-DOCUMENT-NUMBER: 20060019355

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060019355 A1

TITLE: L-Amino acid-producing microorganism and method for producing L-amino acid

PUBLICATION-DATE: January 26, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ueda; Takuji	Kawasaki-shi		JP
Nakai; Yuta	Kawasaki-shi		JP
<u>Gunji</u> ; Yoshiya	Kawasaki-shi		JP
Takikawa; Rie	Kawasaki-shi		JP
Joe; Yuji	Kawasaki-shi		JP

US-CL-CURRENT: 435/106; 435/252.33

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

2. Document ID: US 20050176121 A1

L2: Entry 2 of 7

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050176121

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050176121 A1

TITLE: Method for producing alcohol by using microorganism

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Takeshita, Ryo	Kawasaki-shi		JP
Yasueda, Hisashi	Kawasaki-shi		JP
<u>Gunji</u> , Yoshiya	Kawasaki-shi		JP

US-CL-CURRENT: 435/155; 435/170, 435/183

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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3. Document ID: US 20050003495 A1

L2: Entry 3 of 7

File: PGPB

Jan 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050003495

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050003495 A1

TITLE: Method for producing L-lysine or L-arginine by using methanol-assimilating  
bacterium

PUBLICATION-DATE: January 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji</u> , Yoshiya	Kawasaki		JP
Yasueda, Hisashi	Kawasaki		JP

US-CL-CURRENT: 435/115; 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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4. Document ID: US 20040146974 A1

L2: Entry 4 of 7

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040146974

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040146974 A1

TITLE: Method for producing L-amino acid using methylotroph

PUBLICATION-DATE: July 29, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji</u> , Yoshiya	Kawasaki		JP
Yasueda, Hisashi	Kawasaki		JP

US-CL-CURRENT: 435/69.1; 435/115, 435/193, 435/252.33, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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5. Document ID: US 20040142435 A1

L2: Entry 5 of 7

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142435  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040142435 A1

TITLE: Method for producing L-amino acid using methylotroph

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji, Yoshiya</u>	Kawasaki		JP
Yasueda, Hisashi	Kawasaki		JP

US-CL-CURRENT: 435/106

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

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6. Document ID: US 20030124687 A1

L2: Entry 6 of 7

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124687  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030124687 A1

TITLE: Method for producing L-lysine or L-arginine by using methanol assimilating bacterium

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji, Yoshiya</u>	Kawasaki-shi		JP
Yasueda, Hisashi	Kawasaki-shi		JP

US-CL-CURRENT: 435/115; 435/252.3, 435/320.1, 435/69.1, 530/350, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

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7. Document ID: US 20030113899 A1

L2: Entry 7 of 7

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113899  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030113899 A1

TITLE: Method for producing L-arginine

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yamaguchi, Mikiko	Kawasaki-shi	JP	
Ito, Hisao	Kawasaki-shi	JP	
<u>Gunji</u> , Yoshiya	Kawasaki-shi	JP	
Yasueda, Hisashi	Kawasaki-shi	JP	

US-CL-CURRENT: 435/252.1; 435/252.33, 435/252.8[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

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Terms		Documents			
L1 and (methanol-utilizing bacterium)		7			

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